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NEWS 3 JAN 16 CA/CAplus Company Name Thesaurus enhanced and reloaded
NEWS 4 JAN 16 IPC version 2007.01 thesaurus available on STN
NEWS 5 JAN 16 WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 6 JAN 22 CA/CAplus updated with revised CAS roles
NEWS 7 JAN 22 CA/CAplus enhanced with patent applications from India
NEWS 8 JAN 29 PHAR reloaded with new search and display fields
NEWS 9 JAN 29 CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS 10 FEB 15 PATDPASPC enhanced with Drug Approval numbers
NEWS 11 FEB 15 RUSSIAPAT enhanced with pre-1994 records
NEWS 12 FEB 23 KOREAPAT enhanced with IPC 8 features and functionality
NEWS 13 FEB 26 MEDLINE reloaded with enhancements
NEWS 14 FEB 26 EMBASE enhanced with Clinical Trial Number field
NEWS 15 FEB 26 TOXCENTER enhanced with reloaded MEDLINE
NEWS 16 FEB 26 IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS 17 FEB 26 CAS Registry Number crossover limit increased from 10,000 to 300,000 in multiple databases
NEWS 18 MAR 15 WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS 19 MAR 16 CASREACT coverage extended
NEWS 20 MAR 20 MARPAT now updated daily
NEWS 21 MAR 22 LWPI reloaded
NEWS 22 MAR 30 RDISCLOSURE reloaded with enhancements
NEWS 23 APR 02 JICST-EPLUS removed from database clusters and STN
NEWS 24 APR 30 GENBANK reloaded and enhanced with Genome Project ID field
NEWS 25 APR 30 CHEMCATS enhanced with 1.2 million new records
NEWS 26 APR 30 CA/CAplus enhanced with 1870-1889 U.S. patent records
NEWS 27 APR 30 INPADOC replaced by INPADOCDB on STN
NEWS 28 MAY 01 New CAS web site launched

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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10 / 541,535

FILE 'HOME' ENTERED AT 14:11:00 ON 07 MAY 2007

FILE 'REGISTRY' ENTERED AT 14:11:10 ON 07 MAY 2007
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STRUCTURE FILE UPDATES: 6 MAY 2007 HIGHEST RN 934336-20-6
DICTIONARY FILE UPDATES: 6 MAY 2007 HIGHEST RN 934336-20-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

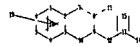
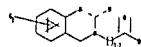
TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> Uploading C:\Program Files\Stnexp\Queries\10541535.str



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ring nodes :
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10/ 541,535

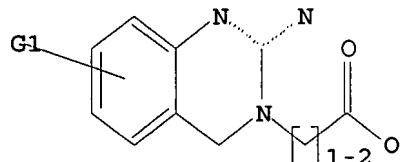
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chain bonds :
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ring bonds :
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exact/norm bonds :
2-7 3-10 7-8 8-9 8-11 9-10 9-12 13-14 13-15
exact bonds :
12-13
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6
isolated ring systems :
containing 1 :

G1:H,X

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 19:CLASS 20:Atom

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



G1 H,X

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sample
SAMPLE SEARCH INITIATED 14:11:35 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 595 TO ITERATE

100.0% PROCESSED 595 ITERATIONS 9 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 10437 TO 13363
PROJECTED ANSWERS: 9 TO 360

L2 9 SEA SSS SAM L1

=> s l1 ful
FULL SEARCH INITIATED 14:11:42 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 11878 TO ITERATE

100.0% PROCESSED 11878 ITERATIONS 166 ANSWERS
SEARCH TIME: 00.00.01

10/ 541,535

L3 166 SEA SSS FUL L1

=> file zcaplus	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	172.10	172.31

FILE 'ZCAPLUS' ENTERED AT 14:11:49 ON 07 MAY 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 7 May 2007 VOL 146 ISS 20
FILE LAST UPDATED: 6 May 2007 (20070506/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 13
L4 20 L3

=> d his

(FILE 'HOME' ENTERED AT 14:11:00 ON 07 MAY 2007)

FILE 'REGISTRY' ENTERED AT 14:11:10 ON 07 MAY 2007
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L2 9 S L1 SAMPLE
L3 166 S L1 FUL

FILE 'ZCAPLUS' ENTERED AT 14:11:49 ON 07 MAY 2007
L4 20 S L3

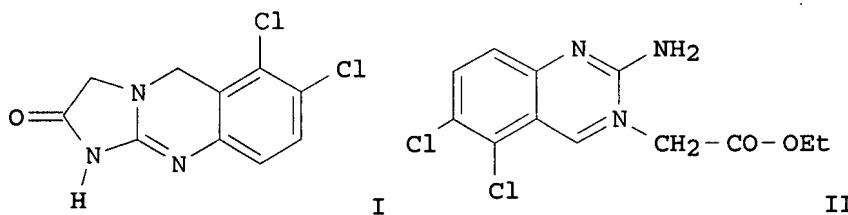
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YOU HAVE REQUESTED DATA FROM 20 ANSWERS - CONTINUE? Y/ (N) :y

L4 ANSWER 1 OF 20 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:385933 ZCAPLUS
DOCUMENT NUMBER: 144:370110
TITLE: Preparation of anagrelide hydrochloride
PATENT ASSIGNEE(S): AOP Orphan Pharmaceuticals A.-G., Austria
SOURCE: Austrian, 7 pp.
CODEN: AUXXAK
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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AT 412873	B	20050825	AT 2004-273	20040220
AT 200400273	A	20050115		
WO 2005080398	A1	20050901	WO 2005-AT32	20050203
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PRIORITY APPLN. INFO.: AT 2004-273 A 20040220
OTHER SOURCE(S): CASREACT 144:370110
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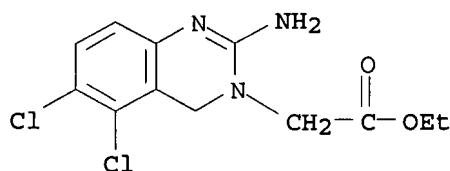


AB A process for the preparation of title compound I from 2,3-dichlorobenzaldehyde in 7-steps was disclosed. For example, NaHCO₃ mediated cyclization of quinazolineacetic acid II afforded anagrelide in 80% yield.

IT 742010-46-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of anagrelide hydrochloride)

RN 742010-46-4 ZCAPLUS

CN 3 (4H)-Quinazolineacetic acid, 2-amino-5,6-dichloro-, ethyl ester (9CI)
 (CA INDEX NAME)

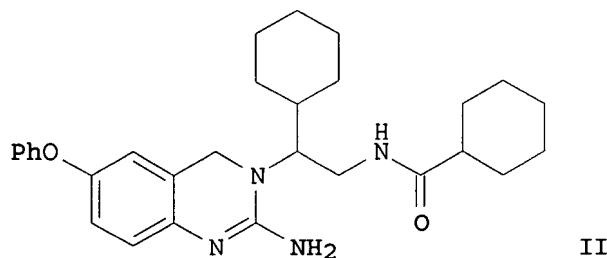
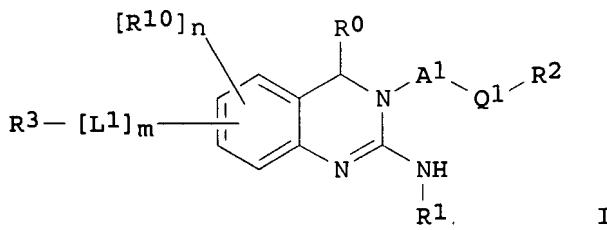


L4 ANSWER 2 OF 20 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:213433 ZCAPLUS
DOCUMENT NUMBER: 144:274294
TITLE: Novel 2-aminoquinazoline derivatives, their preparation and use as inhibitors of β -secretase for treating Alzheimer's disease and related disorders
INVENTOR(S): Bishoff, Francois Paul; Bracken, Mirielle; Pieters, Serge Marie Aloysius; Mercken, Marc Hubert; De Winter, Hans Louis Jos; Berthelot, Dieder Jean-Claude
PATENT ASSIGNEE(S): Janssen Pharmaceutica, N. V., Belg.
SOURCE: PCT Int. Appl., 369 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006024932	A1	20060309	WO 2005-IB2595	20050808
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RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
US 2006079686	A1	20060413	US 2005-197608	20050804
US 2006079687	A1	20060413	US 2005-197669	20050804
US 2006178383	A1	20060810	US 2005-197615	20050804
PRIORITY APPLN. INFO.:			US 2004-599810P	P 20040806
			US 2004-599317P	P 20040806
			US 2004-599811P	P 20040806

OTHER SOURCE(S): MARPAT 144:274294
 GI



AB The invention is related to novel 2-amino-3,4-dihydro-quinazoline derivs. I [R0 = H, Me, CF3; R1 = H, OH, Me, Et, CF3, OEt, etc.; A1 = (un)substituted alkyl; Q1= O, S, CO, CS, NHCO, CONH, etc.; R2 = (un)substituted cyclo/alkyl, aryl, spiroheterocycl, etc.; m = 0-1; R3 = (un)substituted alk(en)yl, aryl, etc.; n = 0-3; each R10 = independently OH, halo, alkyl, alkoxy, etc.; with provisos] pharmaceutical compns. containing them and their use as inhibitors of β -secretase, also known as β -site cleaving enzyme and BACE, in the treatment of Alzheimer's disease and related disorders. E.g., a multi-step synthesis starting from

N-(tert-butoxycarbonyl)glycine Me ester and N,O-dimethylhydroxylamine•HCl was given for aminoquinazoline II. I inhibited β -secretase in 3 different assays.

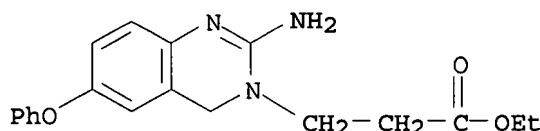
IT 876763-94-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of 2-aminoquinazolines as β -secretase inhibitors for treating Alzheimer's disease and related disorders)

RN 876763-94-9 ZCPLUS

CN 3(4H)-Quinazolinepropanoic acid, 2-amino-6-phenoxy-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 20 ZCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:152738 ZCPLUS

DOCUMENT NUMBER: 144:254142

TITLE: Novel 2-aminoquinazoline derivatives, their preparation and use as inhibitors of β -secretase for treating Alzheimer's disease and related disorders

INVENTOR(S): Baxter, Ellen; Bischoff, Francois Paul; Boyd, Robert; Braecken, Mireille; Coats, Steven; Huang, Yifang; Jordan, Alfonzo; Luo, Chi; Mercken, Marc Hubert; Reynolds, Charles H.; Ross, Tina Morgan; Toungle, Brett A.; Schulz, Mark; De Winte, Hans Louis Jos; Pieters, Serge Maria Aloysius; Reitz, Allen B.

PATENT ASSIGNEE(S): Janssen Pharmaceutica, N.V., Belg.

SOURCE: PCT Int. Appl., 385 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

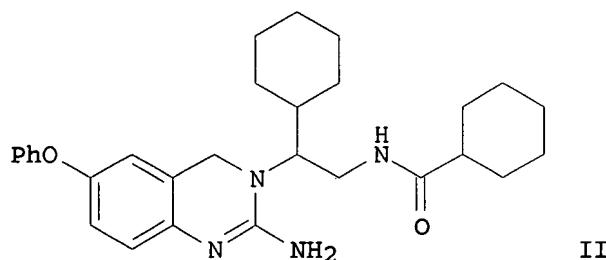
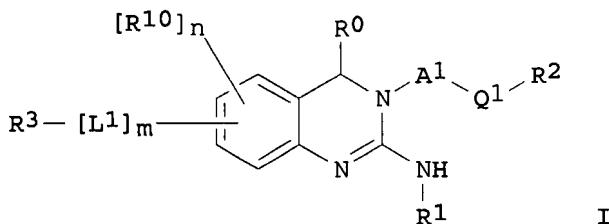
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2006017836	A3	20060629		
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RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
US 2006079686	A1	20060413	US 2005-197608	20050804
US 2006079687	A1	20060413	US 2005-197669	20050804
US 2006178383	A1	20060810	US 2005-197615	20050804

EP 1776349	A2 20070425	EP 2005-785256	20050808
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU			

PRIORITY APPLN. INFO.:	US 2004-599811P	P 20040806
	US 2004-599317P	P 20040806
	US 2004-599810P	P 20040806
	WO 2005-US28191	W 20050808

OTHER SOURCE(S): MARPAT 144:254142
GI

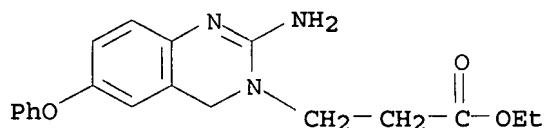


AB The invention is related to novel 2-amino-3,4-dihydro-quinazoline derivs. I [R0 = H, Me, CF3; R1 = H, OH, Me, Et, CF3, OEt, etc.; A1 = (un)substituted alkyl; Q1 = O, S, CO, CS, NHCO, CONH, etc.; R2 = (un)substituted cyclo/alkyl, aryl, spiroheterocyclyl; m = 0-1; L1 = O, S, SO, SO2, etc.; R3 = (un)substituted alk(en)yl, aryl, etc.; n = 0-3; each R10 = independently OH, halo, alkyl, alkoxy, etc.; with provisos] pharmaceutical compns. containing them and their use as inhibitors of β -secretase, also known as β -site cleaving enzyme and BACE, in the treatment of Alzheimer's disease and related disorders. E.g., a multi-step synthesis starting from N-(tert-butoxycarbonyl)glycine Me ester and N,O-dimethylhydroxylamine•HCl was given for aminoquinazoline II. I inhibited β -secretase in 3 different assays.

IT 876763-94-9P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of 2-aminoquinazolines as β -secretase inhibitors for treating Alzheimer's disease and related disorders)

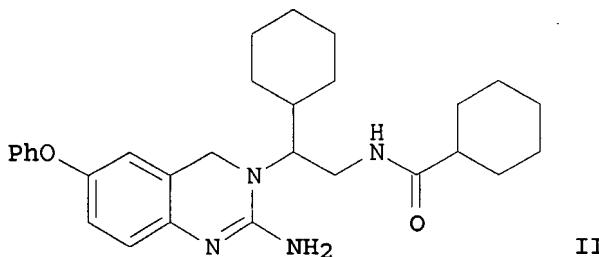
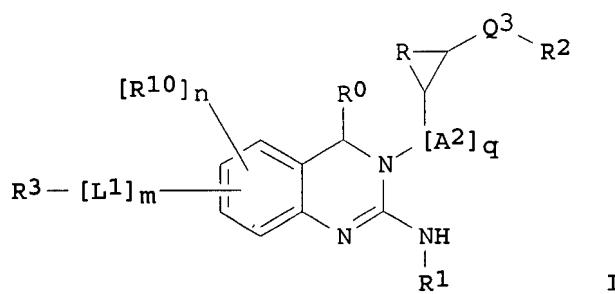
RN 876763-94-9 ZCAPLUS
CN 3(4H)-Quinazolinepropanoic acid, 2-amino-6-phenoxy-, ethyl ester (9CI)
(CA INDEX NAME)



L4 ANSWER 4 OF 20 ZCPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2006:149827 ZCPLUS
 DOCUMENT NUMBER: 144:254141
 TITLE: Novel 2-aminoquinazoline derivatives, their preparation and use as inhibitors of β -secretase for treating Alzheimer's disease and related disorders
 INVENTOR(S): Baxter, Ellen; Boyd, Robert; Coats, Steve; Jordan, Alfonzo; Reitz, Allen; Reynolds, Charles H.; Scott, Malcolm; Schulz, Mark; De Winter, Hans Louis Jos
 PATENT ASSIGNEE(S): Janssen Pharmaceutica, N.V., Belg.
 SOURCE: PCT Int. Appl., 382 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006017844	A1	20060216	WO 2005-US28340	20050808
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RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
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US 2006079687	A1	20060413	US 2005-197669	20050804
US 2006178383	A1	20060810	US 2005-197615	20050804
EP 1776350	A1	20070425	EP 2005-786778	20050808
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU				
PRIORITY APPLN. INFO.:			US 2004-599317P	P 20040806
			US 2004-599810P	P 20040806
			US 2004-599811P	P 20040806
			WO 2005-US28340	W 20050808

OTHER SOURCE(S): MARPAT 144:254141
 GI



AB The invention is related to novel 2-amino-3,4-dihydro-quinazoline derivs. I [R0 = H, Me, CF3; R1 = H, OH, Me, Et, CF3, OEt, etc.; q = 0-1; A2 = (un)substituted alkyl; R = (un)substituted hetero/aryl, arylalkyl, hetero/cycloalkyl, partially unsatd. carbocyclyl, spiroheterocyclyl; provided that when q = 0; R is other than hetero/aryl; Q3 = O, S, CO, CS, OCO, etc.; R2 = (un)substituted cyclo/alkyl, aryl, spiroheterocyclyl, etc.; m = 0-1; L1 = O, S, SO, SO2, CO, NH and derivs., etc.; R3 = (un)substituted cyclo/alkyl, alkenyl, hetero/aryl, etc.; n = 0-3; each R10 = independently OH, halo, alkyl, alkoxy, etc.; with provisos] pharmaceutical compns. containing them and their use as inhibitors of β -secretase, also known as β -site cleaving enzyme and BACE, in the treatment of Alzheimer's disease and related disorders. E.g., a multi-step synthesis starting from N-(tert-butoxycarbonyl)glycine Me ester and N,O-dimethylhydroxylamine•HCl was given for aminoquinazoline II. I inhibited β -secretase in 3 different assays.

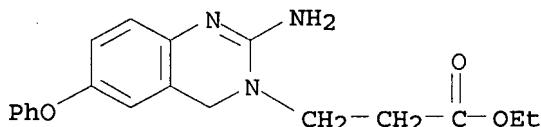
IT 876763-94-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of 2-aminoquinazolines as β -secretase inhibitors for treating Alzheimer's disease and related disorders)

RN 876763-94-9 ZCPLUS

CN 3 (4H)-Quinazolinepropanoic acid, 2-amino-6-phenoxy-, ethyl ester (9CI) (CA INDEX NAME)

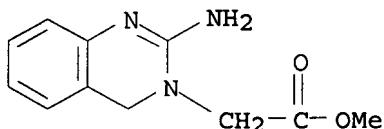


REFERENCE COUNT:

4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ACCESSION NUMBER: 2005:378803 ZCPLUS
 DOCUMENT NUMBER: 143:78149
 TITLE: Base catalyzed intramolecular transamidation of
 2-aminoquinazoline derivatives on solid phase
 Grover, Rajesh K.; Kesarwani, Amit P.; Srivastava,
 Gaurav K.; Kundu, Bijoy; Roy, Raja
 CORPORATE SOURCE: Division of SAIF, Central Drug Research Institute,
 Lucknow, 226001, India
 SOURCE: Tetrahedron (2005), 61(21), 5011-5018
 CODEN: TETRAB; ISSN: 0040-4020
 PUBLISHER: Elsevier B.V.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 143:78149
 AB A novel intramol. cycloelimination via transamidation on Rink Amide AM resin under mild basic conditions is presented. The methodol. led to the synthesis of an important class of cardiotonic agents: imidazo- and pyrimidoquinazolines from the corresponding 2-aminoquinazoline hydrobromide salt under mild basic conditions. NMR based titration studies revealed the role of hydrobromide as a mol. switch, which on removal triggers the cyclization of aminoquinazoline to tricyclic structures. The main advantage of transamidation under basic conditions over the TFA cleavage is the recyclability of the resin obtained after cycloelimination. This has been demonstrated by successive synthesis of four structurally diverse imidazoquinazolin-2-ones using the same batch of resin without any cross contamination.
 IT 855005-11-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of imidazo- and pyrimidoquinazolines by base catalyzed intramol. transamidation of 2-aminoquinazolines on solid phase)
 RN 855005-11-7 ZCPLUS
 CN 3(4H)-Quinazolineacetic acid, 2-amino-, methyl ester, monohydrobromide (9CI) (CA INDEX NAME)



● HBr

REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

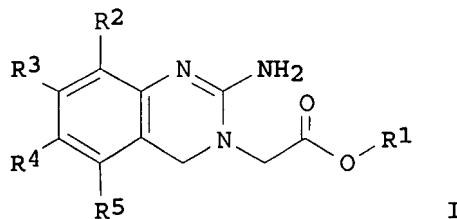
L4 ANSWER 6 OF 20 ZCPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2004:587927 ZCPLUS
 DOCUMENT NUMBER: 141:117193
 TITLE: 2-Amino-2H-quinazoline derivatives as prodrugs for the bronchdilator anagrelid
 INVENTOR(S): Sachse, Rolf
 PATENT ASSIGNEE(S): Chemisch-Pharmazeutisches Labor, Rolf Sachse GmbH, Germany
 SOURCE: Ger. Offen., 7 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10301105	A1	20040722	DE 2003-10301105	20030109
DE 10301105	B4	20051124		
AU 2004203910	A1	20040729	AU 2004-203910	20040107
CA 2512999	A1	20040729	CA 2004-2512999	20040107
WO 2004063172	A1	20040729	WO 2004-EP54	20040107
W: AE, AG, AL, AM, AT, AU, AZ, CN, CO, CR, CU, CZ, DE, DK, GE, GH, GM, HR, HU, ID, IL, LK, LR, LS, LT, LU, LV, MA, BA, BB, BG, BR, BW, BY, BZ, CA, CH, DM, DZ, EC, EE, EG, ES, FI, GB, GD, IN, IS, JP, KE, KG, KP, KR, KG, KP, KR, KZ, LC, MD, MG, MK, MN, MW, MX, MZ				
EP 1581506	A1	20051005	EP 2004-700454	20040107
EP 1581506	B1	20061129		
R: AT, BE, CH, DE, DK, ES, FR, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006516565	T	20060706	JP 2006-500528	20040107
AT 346844	T	20061215	AT 2004-700454	20040107
US 2006148832	A1	20060706	US 2005-541535	20050709
PRIORITY APPLN. INFO.:			DE 2003-10301105	A 20030109
			WO 2004-EP54	W 20040107

OTHER SOURCE(S):

MARPAT 141:117193

GI



AB 2-Amino-2H-quinazolines I [R1 = alkyl; R2-R5 = H, Cl] are prodrugs for the bronchdilator anagrelid. They cyclize to anagrelid in basic medium. Thus, I [R1 = Me, R2, R3 = H, R4, R5 = Cl] was cyclized 100% in 0.1 M NaOH.

IT 70380-52-8 70380-54-0 70380-55-1

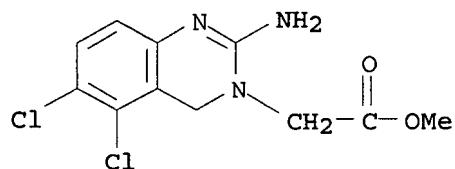
70381-75-8

RL: RCT (Reactant); RACT (Reactant or reagent)

(2-amino-2H-quinazoline derivs. as prodrugs for the bronchdilator anagrelid)

RN 70380-52-8 ZCAPLUS

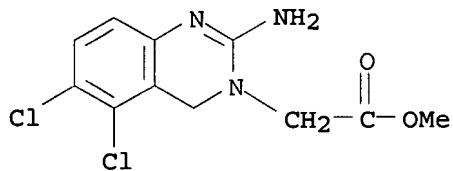
CN 3 (4H)-Quinazolineacetic acid, 2-amino-5,6-dichloro-, methyl ester, monohydrobromide (9CI) (CA INDEX NAME)



● HBr

RN 70380-54-0 ZCPLUS

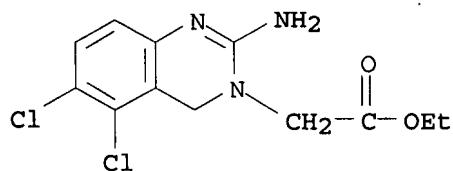
CN 3 (4H) -Quinazolineacetic acid, 2-amino-5,6-dichloro-, methyl ester, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 70380-55-1 ZCPLUS

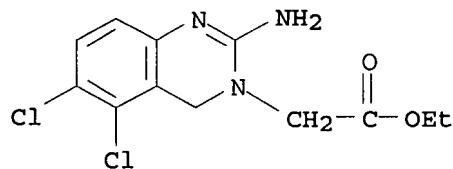
CN 3 (4H) -Quinazolineacetic acid, 2-amino-5,6-dichloro-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 70381-75-8 ZCPLUS

CN 3 (4H) -Quinazolineacetic acid, 2-amino-5,6-dichloro-, ethyl ester, monohydrobromide (9CI) (CA INDEX NAME)



● HBr

L4 ANSWER 7 OF 20 ZCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:580016 ZCPLUS

DOCUMENT NUMBER: 139:292219

TITLE: Solid Phase Synthesis of 2-Aminoquinazoline-Based Compounds

AUTHOR(S): Srivastava, Gaurav K.; Kesarwani, Amit P.; Grover, Rajesh K.; Roy, Raja; Srinivasan, T.; Kundu, Bijoy

CORPORATE SOURCE: Medicinal Chemistry Division and NMR Lab, Sophisticated Analytical Instrumentation Facility, Central Drug Research Institute, Lucknow, IA, 226001,

USA

SOURCE: Journal of Combinatorial Chemistry (2003), 5(6),

769-774

CODEN: JCCCHF; ISSN: 1520-4766

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 139:292219

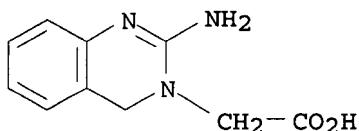
AB A versatile method for the solid-phase synthesis of 2-aminoquinazoline-based derivs., 3-substituted-3,4-dihydroquinazolin-2-amines and imidazoquinazolines, has been developed. They were obtained by treating the amino group of polymer-linked amino acids with 2-nitrobenzaldehyde followed by reduction of the nitro group to an amine. Cyclization of the resulting immobilized intermediates with cyanogen bromide followed by acidic/basic cleavage yielded the desired quinazoline-based compds. in high yields and purities.

IT 603998-03-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(solid-phase synthesis of dihydroquinazolinamines and imidazoquinazolines by treating polymer-linked amino acids with nitrobenzaldehyde followed by reduction)

RN 603998-03-4 ZCPLUS

CN 3(4H)-Quinazolineacetic acid, 2-amino-, monohydrobromide (9CI) (CA INDEX NAME)



● HBr

REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 20 ZCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2002:90046 ZCPLUS

DOCUMENT NUMBER: 136:134782

TITLE: Preparation of anagrelide related compounds via nitration of dihalobenzaldehydes.

INVENTOR(S): Lang, Philip Charles; Spencer, Roxanne Paula; Yeh, Wen-Lung; Roth, Michael Joseph

PATENT ASSIGNEE(S): Shire US Inc., USA

SOURCE: PCT Int. Appl., 24 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

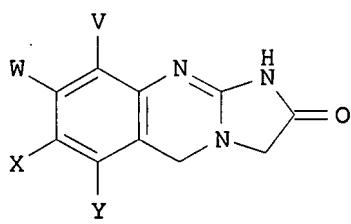
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002008228	A2	20020131	WO 2001-GB3362	20010726
WO 2002008228	A3	20031009		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,				

RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US,
 UZ, VN, YU, ZA, ZW
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG,
 KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR,
 IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN,
 GQ, GW, ML, MR, NE, SN, TD, TG
 US 6388073 B1 20020514 US 2000-625962 20000726
 CA 2417001 A1 20020131 CA 2001-2417001 20010726
 EP 1373268 A2 20040102 EP 2001-951826 20010726
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 EP 1700840 A2 20060913 EP 2006-13049 20010726
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 EP 1700841 A2 20060913 EP 2006-13050 20010726
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 EP 1700859 A2 20060913 EP 2006-13051 20010726
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 EP 1700842 A2 20060913 EP 2006-13052 20010726
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 EP 1700843 A2 20060913 EP 2006-13053 20010726
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 US 2003060630 A1 20030327 US 2002-134088 20020425
 US 6653500 B2 20031125

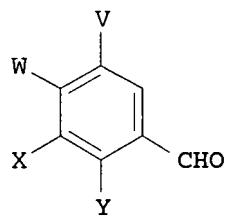
PRIORITY APPLN. INFO.:

US 2000-625962 A 20000726
 EP 2001-951826 A3 20010726
 WO 2001-GB3362 W 20010726

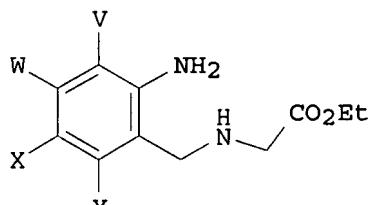
OTHER SOURCE(S): CASREACT 136:134782; MARPAT 136:134782
 GI



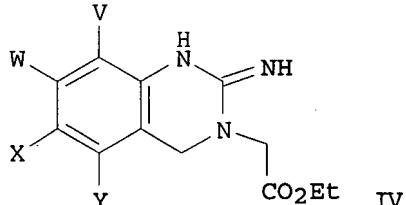
I



II



III



IV

AB Title compds. (I; X, Y = F, Cl, Br, iodo; V, W = H, F, Cl, Br, iodo), were prepared in 7 steps from aldehydes (II; variables as above) via successive nitration, aldehyde reduction, chlorination, amination, and NO₂ reduction to give (III; variables as above) followed by bromocyanation to give (IV; variables as above), and cyclization. Thus, Et N-(6-amino-2,3-

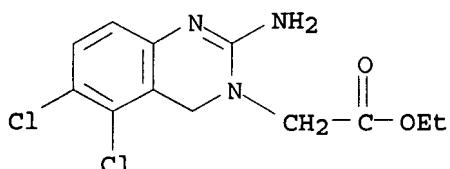
dichlorobenzyl)glycine (preparation given) was refluxed 1 h with CNBr in PhMe to give 96-98% Et 5,6-dichloro-3,4-dihydro-1(1H)-iminoquinazoline-3-acetate hydrobromide. The latter was stirred with Et3N in H2O for 2 h to give 86-88% 6,7-dichloro-1,5-dihydroimidazo[2,1-b]quinazolin-2(3H)-one.

IT 70381-75-8P

RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of anagrelide related compds. via nitration of dihalobenzaldehydes)

RN 70381-75-8 ZCPLUS

CN 3(4H)-Quinazolineacetic acid, 2-amino-5,6-dichloro-, ethyl ester, monohydrobromide (9CI) (CA INDEX NAME)



● HBr

L4 ANSWER 9 OF 20 ZCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1997:749954 ZCPLUS

DOCUMENT NUMBER: 128:75359

TITLE: A convenient large-scale synthesis of ethyl (2-cyanimino-5,6-dichloro-1,2,3,4-tetrahydroquinazolin-3-yl)acetate

AUTHOR(S): Trinka, P.; Reiter, Jozsef

CORPORATE SOURCE: EGIS Pharmaceuticals Ltd., Budapest, H-1475, Hung.

SOURCE: Journal fuer Praktische Chemie/Chemiker-Zeitung (1997), 339(8), 750-753

CODEN: JPCCEM; ISSN: 0941-1216

PUBLISHER: Johann Ambrosius Barth

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 128:75359

AB Attempts to elaborate practical routes, applicable for industrial scale for the synthesis of the title compound as anagrelide precursor starting either from 2-amino-5,6-dichlorobenzylamine or N-(2-amino-5,6-dichlorobenzyl)glycinate are reported. The reaction of the latter compound with (PhO)2C:NCN in MeCN gave the desired product in 95% yield within 2 h.

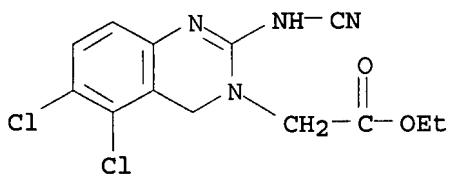
IT 146374-56-3P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(large-scale synthesis of anagrelide precursor [chloro(cyanimino)hydroquinazolinyl]acetate)

RN 146374-56-3 ZCPLUS

CN 3(4H)-Quinazolineacetic acid, 5,6-dichloro-2-(cyanoamino)-, ethyl ester (9CI) (CA INDEX NAME)

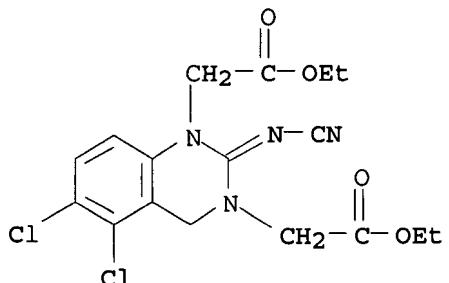


IT 200571-16-0P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of anagrelide precursor [chloro(cyanimino)hydroquinazolinyl]acetate)

RN 200571-16-0 ZCPLUS

CN 1,3(2H,4H)-Quinazolinediacetic acid, 5,6-dichloro-2-(cyanoimino)-, diethyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 10 OF 20 ZCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:959882 ZCPLUS

DOCUMENT NUMBER: 124:44698

TITLE: Isolation and identification of seven metabolites of a water-soluble platelet aggregation inhibitor in rat urine

AUTHOR(S): Tanaka, M.; Ishikawa, F.; Hakusui, H.

CORPORATE SOURCE: Drug Metabolism and Analytical Chemistry Research Center, Daiichi Pharmaceutical Co. Ltd., Tokyo, 134, Japan

SOURCE: Xenobiotica (1995), 25(11), 1247-57
 CODEN: XENOBH; ISSN: 0049-8254

PUBLISHER: Taylor & Francis

DOCUMENT TYPE: Journal

LANGUAGE: English

GI

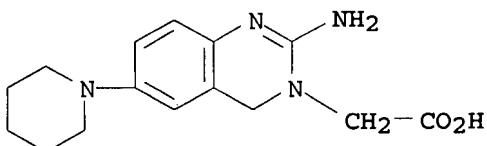
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Seven metabolites of 7-piperidino-1,2,3,4,5-tetrahydroimidazo[2,1-b]quinazolin-2-one dihydrochloride monohydrate (DN-9693) were isolated from rat urine by extraction with Amberlite XAD-2 and purification by silica gel and

Sephadex LH-20 open-column chromatog. and preparative high-performance liquid chromatog. (HPLC). The structure assignment of the metabolites was performed by field desorption mass spectrometry and 200-MHz Fourier transform NMR spectroscopic anal. and comparison with authentic stds. when available. DN-9693 underwent metabolism mainly at the piperidine ring to give the 4-hydroxypiperidine derivative (III) and 2-hydroxy-piperidine derivative,

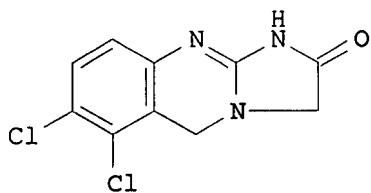
which is further metabolized to lactam (II) or δ -aminovaleric acid (V). The acid side chain of V was shortened by β -oxidation to form the 3-aminopropionic acid derivative (VII). V and/or VII underwent oxidative dealkylation to give the 7-amino derivative, which was conjugated with acetic acid to form the 7-acetylamin derivative (IV). DN-9693 also underwent hydrolysis of its lactam moiety to give VI. The urinary excretion of III, V and VII was determined by liquid chromatog./electrochem. (LC/EC) and V proved to be the major metabolite in rat urine. A procedure is also presented for the identification of DN-9693 metabolites using LC/EC.

IT 172271-02-2
 RL: ANT (Analyte); BSU (Biological study, unclassified); MFM (Metabolic formation); ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative)
 (DN-9693 metabolite isolation and identification in rat urine)
 RN 172271-02-2 ZCPLUS
 CN 3 (4H)-Quinazolineacetic acid, 2-amino-6-(1-piperidinyl)- (9CI) (CA INDEX NAME)

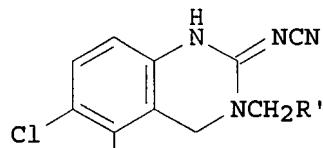


L4 ANSWER 11 OF 20· ZCPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1995:528642 ZCPLUS
 DOCUMENT NUMBER: 122:265395
 TITLE: Process for the preparation of 6,7-dichloro-1,5-dihydroimidazo[2,1-b]quinazolin-2(3H)-one
 INVENTOR(S): Reiter, Jozsef; Trinka, Peter; Toempe, Peter; Szabo, Eva; Slegel, Peter; Brlik, Janos; Halbauer, Nee Nagy Agnes; Sztruhar, Ilona; Kenyeres, Nee Feher Magdolna; et al.
 PATENT ASSIGNEE(S): EGIS Gyogyszergyar, Hung.
 SOURCE: U.S., 7 pp. Cont.-in-part of U.S. Ser. No. 886,605, abandoned.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5391737	A	19950221	US 1993-156974	19931124
HU 61003	A2	19921130	HU 1991-1707	19910522
HU 208681	B	19931228		
HU 62586	A2	19930528	HU 1991-1708	19910522
HU 209633	B	19940928		
PRIORITY APPLN. INFO.:			HU 1991-1707	A 19910522
			HU 1991-1708	A 19910522
			US 1992-886605	B2 19920521
OTHER SOURCE(S):	CASREACT 122:265395; MARPAT 122:265395			
GI				



I



II

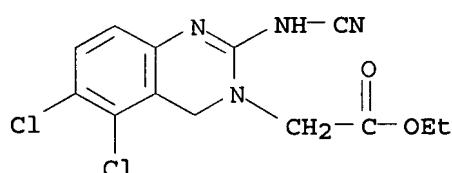
AB This invention relates to a new and improved process for the preparation of 6,7-dichloro-1,5-dihydroimidazo[2,1-b]quinazolin-2(3H)-one (I, anagrelide), a valuable blood platelet antiaggregative compound. According to the process of the invention, I is prepared by subjecting a new 2-cyanoiminoquinazoline derivative of the general formula II wherein R' stands for cyano or a group of the formula COOR₁, in the latter R₁ representing lower alkyl optionally carrying a Ph substituent, to thermal cyclization in an acidic medium. The invention also relates to new 2-cyanoiminoquinazolines of the general formula II used for the production of anagrelide and to the preparation of the said compds. The invention provides an advantageous process for the preparation of anagrelide which is devoid of the drawbacks of the hitherto known processes and renders possible the production of the compound of the formula I on an industrial scale. Thus,

e.g., thermal cyclization of Et (2-cyanoimino-5,6-dichloro-1,2,3,4-tetrahydroquinazolin-3-yl)acetate (preparation given) in ethylene glycol/HCl at 115° afforded 93.0% 6,7-dichloro-1,5-dihydroimidazo[2,1-b]quinazolin-2[3H]-one base.

IT 146374-56-3P, Ethyl (2-cyanoimino-5,6-dichloro-1,2,3,4-tetrahydroquinazolin-3-yl)acetate 146374-59-6P, Benzyl (2-cyanoimino-5,6-dichloro-1,2,3,4-tetrahydroquinazolin-3-yl)acetate
 RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of anagrelide via thermal cyclization of 2-cyanoiminoquinazoline derivs.)

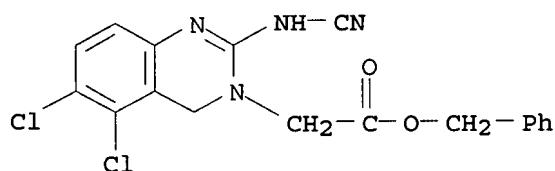
RN 146374-56-3 ZCAPLUS

CN 3(4H)-Quinazolineacetic acid, 5,6-dichloro-2-(cyanoamino)-, ethyl ester (9CI) (CA INDEX NAME)



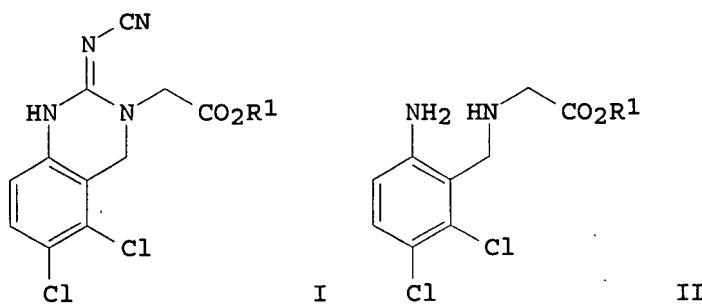
RN 146374-59-6 ZCAPLUS

CN 3(4H)-Quinazolineacetic acid, 5,6-dichloro-2-(cyanoamino)-, phenylmethyl ester (9CI) (CA INDEX NAME)

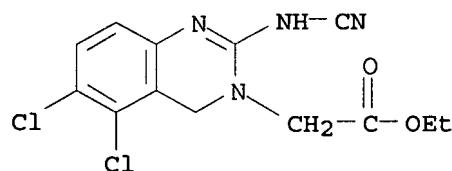


L4 ANSWER 12 OF 20 ZCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1994:270448 ZCAPLUS
DOCUMENT NUMBER: 120:270448
TITLE: Process for producing quinazolineacetic acid esters
via cyclization of N-cyanimidodithiocarbonates with
aminobenzylglycinates catalyzed by mercury or lead
compounds
INVENTOR(S): Trinka, Peter; Reiter, Jozsef; Pongo, Laszlo
PATENT ASSIGNEE(S): EGIS Gyogyszergyar RT., Hung.
SOURCE: Hung. Teljes, 16 pp.
CODEN: HUXXBU
DOCUMENT TYPE: Patent
LANGUAGE: Hungarian
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

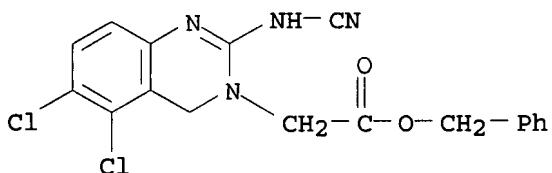
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
HU 64045	A2	19931129	HU 1992-1223	19920410
HU 213619	B	19970828		
PRIORITY APPLN. INFO.:			HU 1992-1223	19920410
OTHER SOURCE(S):	CASREACT 120:270448; MARPAT 120:270448			
GT				



AB Title compds. I (R1 = C1-4 alkyl which may contain a Ph group) were prepared by cyclization of diamino esters II (R1 as above) with cyanimide derivs. (R2S)2C:NCN (R2 = C1-4 alkyl which may contain a Ph group) in presence of a catalyst. Thus, reaction of (MeS)2C:NCN with II (R1 = Et) in presence of Hg(II) oxide afforded 81.5% I (R1 = Et).
 IT 146374-56-3P 146374-59-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)
 RN 146374-56-3 ZCAPLUS
 CN 3 (4H) -Quinazolineacetic acid, 5,6-dichloro-2-(cyanoamino)-, ethyl ester (9CI) (CA INDEX NAME)



RN 146374-59-6 ZCAPLUS
CN 3(4H)-Quinazolineacetic acid, 5,6-dichloro-2-(cyanoamino)-, phenylmethyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 13 OF 20 ZCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:191755 ZCPLUS

DOCUMENT NUMBER: 118:191755

TITLE: Preparation of anagrelide

INVENTOR(S): Reiter, Jozef; Trinka, Peter; Tompe, Peter; Szabo, Eva; Slegel, Peter; Brlik, Janos; Halbauer, Agnes; Sztruhaar, Ilona; Kenyeres, Magdolna; et al.

PATENT ASSIGNEE(S): Egis Gyogyszergyar, Hung.

SOURCE: Eur. Pat. Appl., 21 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

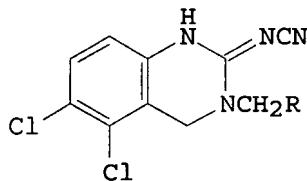
FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 514917	A1	19921125	EP 1992-108656	19920522
EP 514917	B1	19961227		
R: AT, BE, CH, DE, DK, ES, FR, GR, IT, LI, NL, SE				
HU 61003	A2	19921130	HU 1991-1707	19910522
HU 208681	B	19931228		
HU 62586	A2	19930528	HU 1991-1708	19910522
HU 209633	B	19940928		
JP 05271200	A	19931019	JP 1992-151259	19920520
GB 2256195	A	19921202	GB 1992-10908	19920521
GB 2256195	B	19941221		
RU 2042678	C1	19950827	RU 1992-5011723	19920521
CZ 281671	B6	19961211	CZ 1992-1538	19920522
AT 146789	T	19970115	AT 1992-108656	19920522
ES 2095349	T3	19970216	ES 1992-108656	19920522
PRIORITY APPLN. INFO.:			HU 1991-1707	A 19910522
			HU 1991-1708	A 19910522

OTHER SOURCE(S): CASREACT 118:191755; MARPAT 118:191755

GI

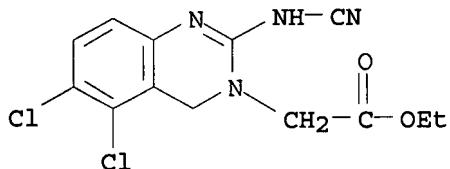


II

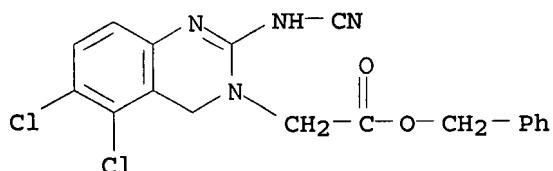
AB The title compound (I) was prepared by cyclization of cyanoiminotetrahydroquinazolinylacetates II [R = cyano, (ar)alkoxycarbonyl]. Thus, Et (2-amino-5,6-dichlorobenzylamino)acetate was cyclocondensed with (PhO)2C:NCN to give 77.6% II (R = CO2Et) which was stirred 30 min at 115° with HCl in HOCH2CH2OH to give 82.9% I.

10/ 541,535

IT 146374-56-3P 146374-59-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and cyclization of, in preparation of anagrelide)
RN 146374-56-3 ZCPLUS
CN 3(4H)-Quinazolineacetic acid, 5,6-dichloro-2-(cyanoamino)-, ethyl ester
(9CI) (CA INDEX NAME)

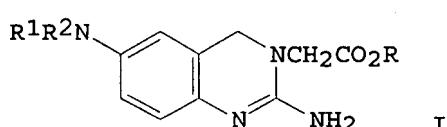


RN 146374-59-6 ZCPLUS
CN 3(4H)-Quinazolineacetic acid, 5,6-dichloro-2-(cyanoamino)-, phenylmethyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 14 OF 20 ZCPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1989:23910 ZCPLUS
DOCUMENT NUMBER: 110:23910
TITLE: Quinazolineacetic acid derivatives as platelet aggregation inhibitors
INVENTOR(S): Ishikawa, Fumiyoshi; Ono, Kenji
PATENT ASSIGNEE(S): Daiichi Seiyaku Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 63196573	A	19880815	JP 1987-29236	19870210
JP 07030046	B	19950405		
PRIORITY APPLN. INFO.:			JP 1987-29236	19870210
OTHER SOURCE(S):	MARPAT	110:23910		



AB The title derivs. I (R = H, alkyl; R1, R2 = alkyl, R1R2 = alkylene) and

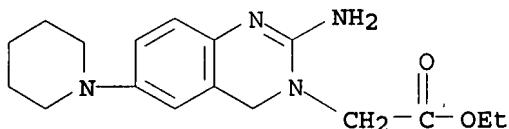
their acid salts are prepared as platelet aggregation inhibitors. Reaction of 4.0 g 2-nitro-5-chlorobenzoic acid with 8.5 g piperidine gave 3.5 g 2-nitro-5-(1-piperidinyl)benzoic acid, which was reduced by NaBH4 in THF to give 2.7 g 2-nitro-5-(1-piperidinyl)benzyl alc. (II). II (1.08 g) was chlorinated by SOCl2, then treated with 3.2 g glycine Et ester-HCl in EtOH containing Et3N to give 0.65 g Et 2-nitro-5-(1-piperidinyl)benzylaminoacetate (III). A solution of 0.65 g III in EtOH was hydrogenated over PtO2 and the product was treated with 0.22 g BrCN in EtOH at room temperature overnight and then with HCl to give 0.44 g I.HBr.HCl.H2O [R = Et, R1R2 = (CH2)5], which showed IC50 of 25 μ M against collagen-induced aggregation.

IT 118159-36-7P 118159-37-8P 118159-38-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as platelet aggregation inhibitor)

RN 118159-36-7 ZCPLUS

CN 3(4H)-Quinazolineacetic acid, 2-amino-6-(1-piperidinyl)-, ethyl ester,
hydrobromide hydrochloride (9CI) (CA INDEX NAME)

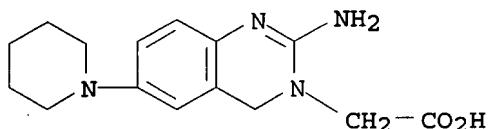


●x HBr

●x HCl

RN 118159-37-8 ZCPLUS

CN 3(4H)-Quinazolineacetic acid, 2-amino-6-(1-piperidinyl)-, hydrobromide
hydrochloride (9CI) (CA INDEX NAME)

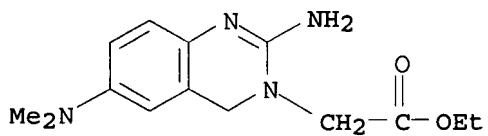


●x HBr

●x HCl

RN 118159-38-9 ZCPLUS

CN 3(4H)-Quinazolineacetic acid, 2-amino-6-(dimethylamino)-, ethyl ester
(9CI) (CA INDEX NAME)



L4 ANSWER 15 OF 20 ZCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1988:570369 ZCPLUS

DOCUMENT NUMBER: 109:170369

TITLE: Inhibitors of cyclic AMP phosphodiesterase. 4. Synthesis and evaluation of potential prodrugs of lixazinone (N-cyclohexyl-N-methyl-4-[(1,2,3,5-tetrahydro-2-oxoimidazo[2,1-b]quinazolin-7-yl)oxy]butyramide, RS-82856)

AUTHOR(S): Venuti, Michael C.; Alvarez, Robert; Bruno, John J.; Strosberg, Arthur M.; Gu, Leo; Chiang, Hi Shi; Massey, Ian J.; Chu, Nancy; Fried, John H.

CORPORATE SOURCE: Inst. Bio-Organic Chem., Syntex Research, Palo Alto, CA, 94304, USA

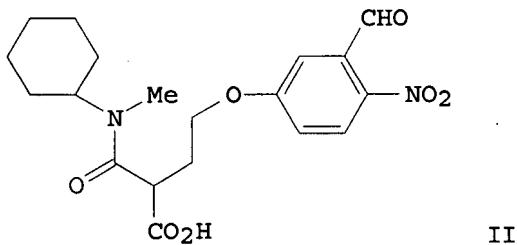
SOURCE: Journal of Medicinal Chemistry (1988), 31(11), 2145-52
CODEN: JMCMAR; ISSN: 0022-2623

DOCUMENT TYPE: Journal

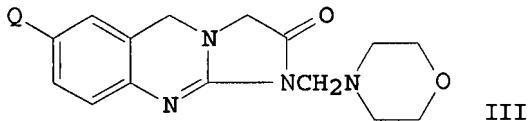
LANGUAGE: English

OTHER SOURCE(S): CASREACT 109:170369

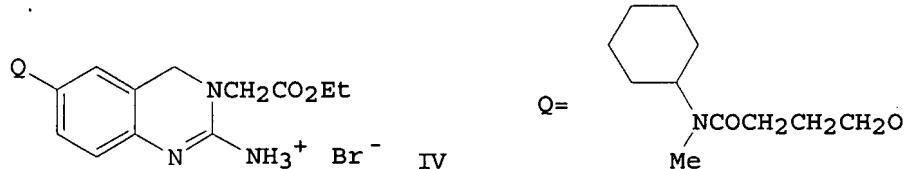
GI



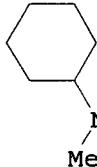
II



III



IV



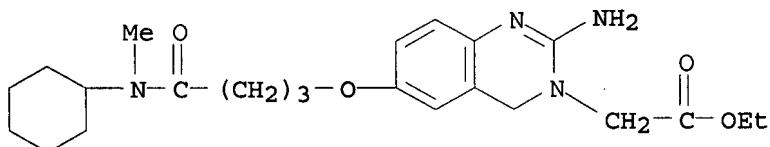
AB The cyclic AMP phosphodiesterase (cAMP PDE) inhibitor and cardiotonic agent lixazinone [N-cyclohexyl-N-methyl-4-[(1,2,3,5-tetrahydro-2-oxoimidazo[2,1-b]quinazolin-7-yl)oxy]butyramide, RS-82856, I] and its acid and base addition salts were found to be insufficiently soluble in formulations suitable for i.v. administration. Potential prodrugs with enhanced aqueous solubility were designed to deliver I by three distinct mechanisms: (1) decarboxylation of α -carboxamides; (2) hydrolytic loss of a solubilizing N-1 (acyloxy)methyl or (N,N-dialkylamino)methyl moiety; or

(3) intramol. closure of a guanidino ester or amide. The target compds. were evaluated as deliver systems for I by three criteria: (1) chemical conversion rate to I under physiol. conditions; (2) inhibition of type IV cAMP PDE at a fixed time point; and (3) in vivo inotropic activity in anesthetized dogs by both i.v. and oral administration. Release of I from α -carboxamide II was too slow to be of value as a prodrug of I, since decarboxylation could be induced only by strong acid, conditions under which hydrolytic ring opening severely competed. Conversely, I was released too readily on exposure of (N,N,-dialkylamino)methyl derivs., e.g. III, to physiol. conditions, although no large increase in aqueous solubility

was realized. Both the physicochem. and in vitro studies indicated that ring closure of the guanidinium esters and amides, e.g. II, to I was quant. and pH- and time-dependent, suggesting the possibility of delivery of the open, water-soluble prodrug form, followed by closure to I in plasma. Detailed examination of these agents in vivo, demonstrated that only those compds. that rapidly cyclized to I, as measured by plasma levels of I exhibited inotropic activity, indicating that the open prodrug form was not efficiently absorbed upon oral administration.

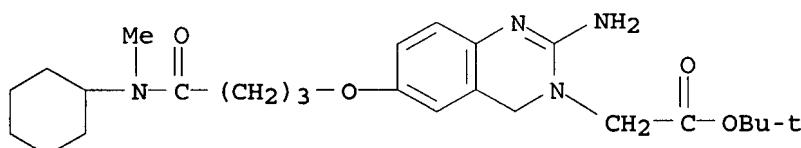
IT 114703-76-3P 114703-82-1P 114703-83-2P
 114703-84-3P 114703-85-4P 114703-86-5P
 115623-42-2P 116005-78-8P 116005-82-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and biol. evaluation of, as lixazinone prodrug)

RN 114703-76-3 ZCAPLUS
 CN 3 (4H) -Quinazolineacetic acid, 2-amino-6-[4-(cyclohexylmethylamino)-4-oxobutoxy]-, ethyl ester, monohydrobromide (9CI) (CA INDEX NAME)



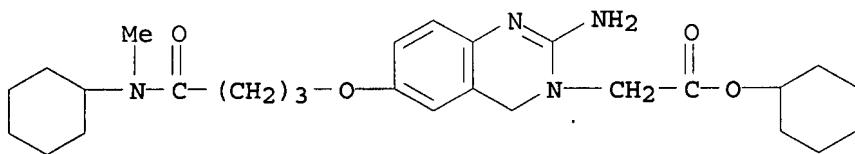
● HBr

RN 114703-82-1 ZCAPLUS
 CN 3 (4H) -Quinazolineacetic acid, 2-amino-6-[4-(cyclohexylmethylamino)-4-oxobutoxy]-, 1,1-dimethylethyl ester, monohydrobromide (9CI) (CA INDEX NAME)



● HBr

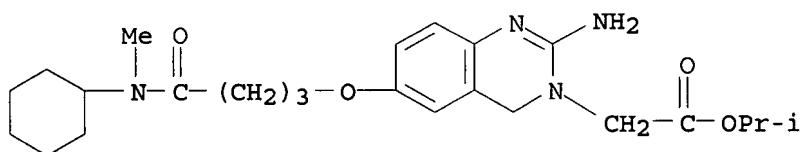
RN 114703-83-2 ZCAPLUS
 CN 3 (4H) -Quinazolineacetic acid, 2-amino-6-[4-(cyclohexylmethylamino)-4-oxobutoxy]-, cyclohexyl ester, monohydrobromide (9CI) (CA INDEX NAME)



● HBr

RN 114703-84-3 ZCPLUS

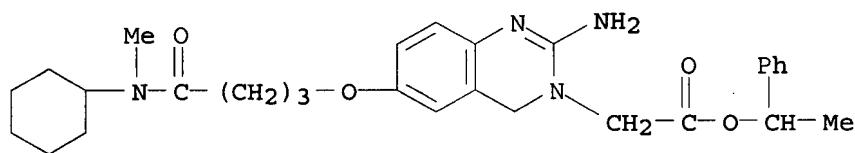
CN 3 (4H) -Quinazolineacetic acid, 2-amino-6-[4-(cyclohexylmethylamino)-4-oxobutoxy]-, 1-methylethyl ester, monohydrobromide (9CI) (CA INDEX NAME)



● HBr

RN 114703-85-4 ZCPLUS

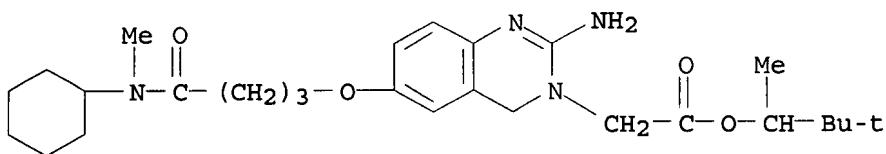
CN 3 (4H) -Quinazolineacetic acid, 2-amino-6-[4-(cyclohexylmethylamino)-4-oxobutoxy]-, 1-phenylethyl ester, monohydrobromide (9CI) (CA INDEX NAME)



● HBr

RN 114703-86-5 ZCPLUS

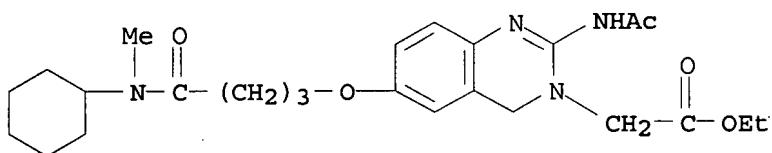
CN 3 (4H) -Quinazolineacetic acid, 2-amino-6-[4-(cyclohexylmethylamino)-4-oxobutoxy]-, 1,2,2-trimethylpropyl ester, monohydrobromide (9CI) (CA INDEX NAME)



● HBr

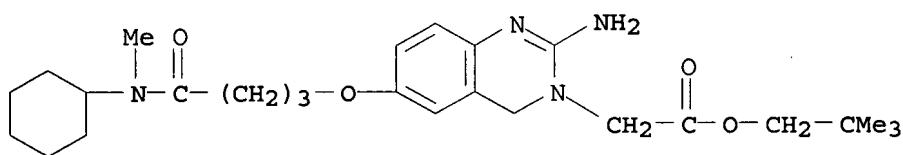
RN 115623-42-2 ZCPLUS

CN 3(4H)-Quinazolineacetic acid, 2-(acetylamino)-6-[4-(cyclohexylmethylamino)-4-oxobutoxy]-, ethyl ester (9CI) (CA INDEX NAME)



RN 116005-78-8 ZCPLUS

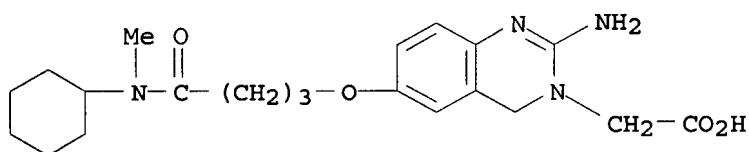
CN 3(4H)-Quinazolineacetic acid, 2-amino-6-[4-(cyclohexylmethylamino)-4-oxobutoxy]-, 2,2-dimethylpropyl ester, monohydrobromide (9CI) (CA INDEX NAME)



● HBr

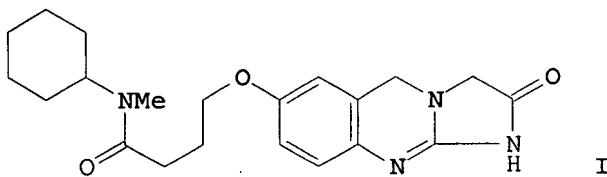
RN 116005-82-4 ZCPLUS

CN 3(4H)-Quinazolineacetic acid, 2-amino-6-[4-(cyclohexylmethylamino)-4-oxobutoxy]-, dihydrobromide (9CI) (CA INDEX NAME)



● 2 HBr

DOCUMENT NUMBER: 109:134889
 TITLE: Parenteral formulation development for the positive inotropic agent RS-82856. Hydrolysis and oxidation kinetics, solubility and i.v. formulation considerations
 AUTHOR(S): Gu, Leo; Oanh Huynh; Strickley, Robert G.; Lin, Li Hwa; Visor, Gary C.
 CORPORATE SOURCE: Inst. Pharm. Sci., Syntex Res., Palo Alto, CA, USA
 SOURCE: International Journal of Pharmaceutics (1988), 45(1-2), 129-38
 CODEN: IJPHDE; ISSN: 0378-5173
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB The degradation kinetics and solubility of RS-82856 hydrogen sulfate (I hydrogen

sulfate) in aqueous and organic solns. were investigated. I reached a .apprx.50/50 equilibrium in water with its imidazole-ring-opened product (RS-31621), which then further degraded to give several secondary products. The rate consts. for the acid catalyzed (kH), spontaneous or water-catalyzed (k0) and base-catalyzed (kOH) reactions for both the forward and reverse reactions were determined at 40, 60 and 80°. The reacting species responsible for each reaction were proposed. Biphasic kinetics were also observed for the autoxidn. of I hydrogen sulfate in organic solvents; the 5-oxo analog (RS-82890) was the only product detected. The t90s in propylene glycol, dimethylacetamide and DMSO for the hydrogen sulfate salt at 25° are <4 wk. These stability results and various solubility data were combined to evaluate possible i.v. formulations for toxicol. and clin. studies. All solution formulations (aqueous,

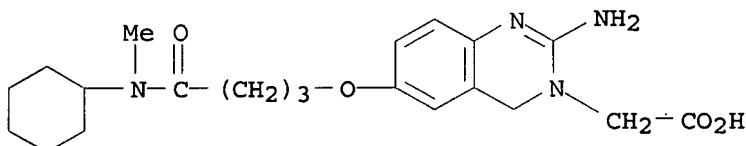
aqueous-organic or organic) are unsuitable for I hydrogen sulfate and alternatives should be sought.

IT 114703-77-4

RL: FORM (Formation, nonpreparative)
 (formation of, as RS-82856 degradation product, parenteral formulation in relation to)

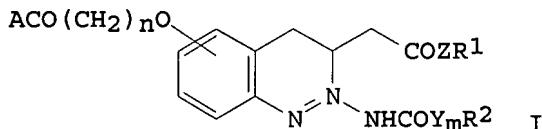
RN 114703-77-4 ZCPLUS

CN 3(4H)-Quinazolineacetic acid, 2-amino-6-[4-(cyclohexylmethylamino)-4-oxobutoxy]- (9CI) (CA INDEX NAME)



TITLE: Preparation and testing of dihydroquinazolinylalkylamides as cardiotonics and antithrombotics
 INVENTOR(S): Venuti, Michael C.
 PATENT ASSIGNEE(S): Syntex (U.S.A.), Inc., USA
 SOURCE: U.S., 23 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4739056	A	19880419	US 1986-935659	19861126
PRIORITY APPLN. INFO.:			US 1986-935659	19861126
OTHER SOURCE(S):	MARPAT	109:93050		
GI				



AB The title compds. [I; R1-R4 = H, alkyl optionally substituted by Cl3C or F3C, (substituted) cycloalkyl, cycloalkylalkyl, Ph, phenylalkyl; R2R4, R1R3 = atoms to complete heterocyclic rings; A = amino; Y = O, NR4; Z = O, NR3; m = 0,1; n = 1-6] were prepared as antithrombotics and inotropics. Glycine tert-Bu ester-HCl was stirred overnight with NaOAc in EtOH and the filtered mixture was treated with N-cyclohexyl-N-methyl-4-(3-formyl-4-nitrophenyl)oxybutyramide and then NaBH3CN to give N-cyclohexyl-N-methyl-4-[2-amino-3-(tert-butyloxycarbonylmethyl)-3,4-dihydroquinazolin-6-yl]oxybutyramide-HBr. The latter was acetylated with Ac2O/Et3N in CH2Cl2 followed by stirring overnight with HBr/HOAc in EtOAc/EtOH to give N-cyclohexyl-N-methyl-4-[2-acetamido-3-(ethoxycarbonylmethyl)-3,4-dihydroquinazolin-6-yl]oxybutyramide. The latter at 3.2 mg/kg intraduodenally in dogs increased right ventricular contractile force to 58% of the maximum value seen with isoproterenol.

IT 115623-42-2P 115623-43-3P 115623-44-4P

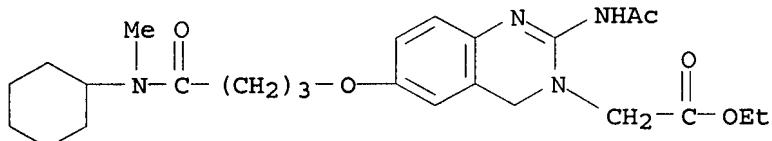
115623-45-5P 115623-46-6P 115623-47-7P

115623-48-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as cardiotonic and antithrombotic)

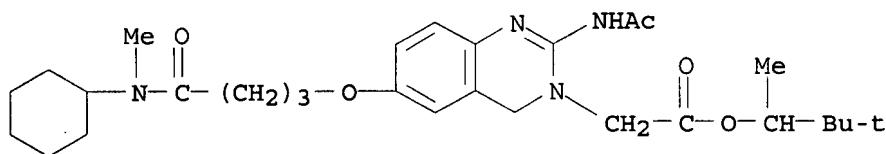
RN 115623-42-2 ZCPLUS

CN 3 (4H)-Quinazolineacetic acid, 2-(acetylamino)-6-[4-(cyclohexylmethyloxymethylamino)-4-oxobutoxy]-, ethyl ester (9CI) (CA INDEX NAME)

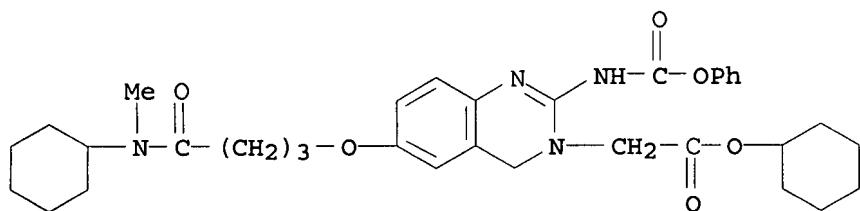


RN 115623-43-3 ZCPLUS

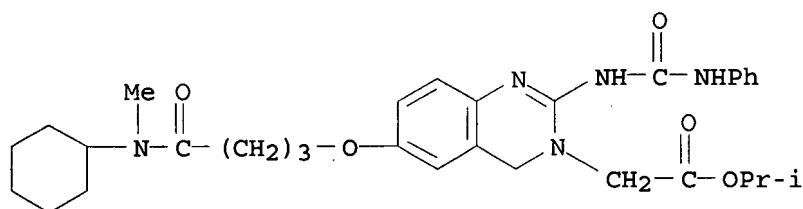
CN 3 (4H)-Quinazolineacetic acid, 2-(acetylamino)-6-[4-(cyclohexylmethyloxymethylamino)-4-oxobutoxy]-, 1,2,2-trimethylpropyl ester (9CI) (CA INDEX NAME)



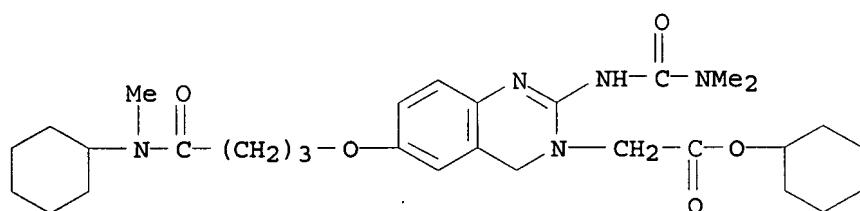
RN 115623-44-4 ZCPLUS
 CN 3 (4H) -Quinazolineacetic acid, 6- [4- (cyclohexylmethylamino) -4-oxobutoxy] -2- [(phenoxy carbonyl)amino] -, cyclohexyl ester (9CI) (CA INDEX NAME)



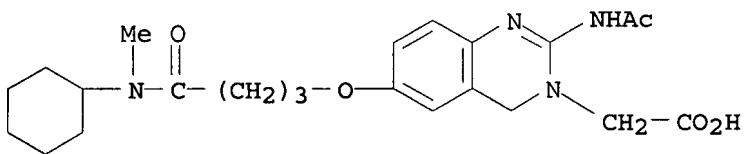
RN 115623-45-5 ZCPLUS
 CN 3 (4H) -Quinazolineacetic acid, 6- [4- (cyclohexylmethylamino) -4-oxobutoxy] -2- [(phenylamino) carbonyl]amino] -, 1-methylethyl ester (9CI) (CA INDEX NAME)



RN 115623-46-6 ZCPLUS
 CN 3 (4H) -Quinazolineacetic acid, 6- [4- (cyclohexylmethylamino) -4-oxobutoxy] -2- [(dimethylamino) carbonyl]amino] -, cyclohexyl ester (9CI) (CA INDEX NAME)



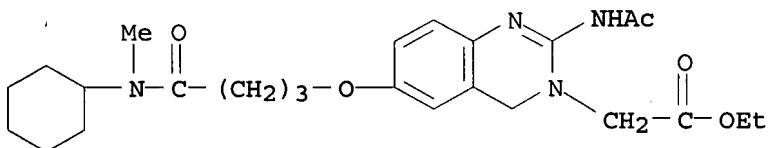
RN 115623-47-7 ZCPLUS
 CN 3 (4H) -Quinazolineacetic acid, 2- (acetylamino) -6- [4- (cyclohexylmethylamino) -4-oxobutoxy] -, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 115623-48-8 ZCPLUS

CN 3(4H)-Quinazolineacetic acid, 2-(acetylamino)-6-[4-(cyclohexylmethylamino)-4-oxobutoxy]-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

IT 114703-76-3P 115623-49-9P 115623-50-2P

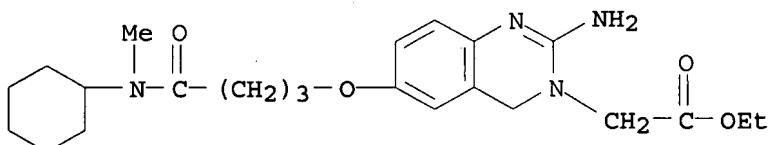
115653-85-5P 115653-86-6P 115653-87-7P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, as intermediate for quinazoline cardiotonic)

RN 114703-76-3 ZCPLUS

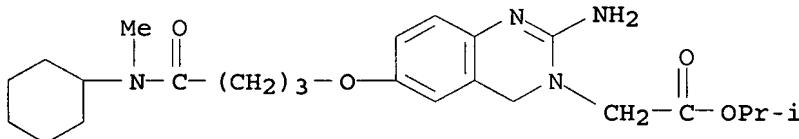
CN 3(4H)-Quinazolineacetic acid, 2-amino-6-[4-(cyclohexylmethylamino)-4-oxobutoxy]-, ethyl ester, monohydrobromide (9CI) (CA INDEX NAME)



● HBr

RN 115623-49-9 ZCPLUS

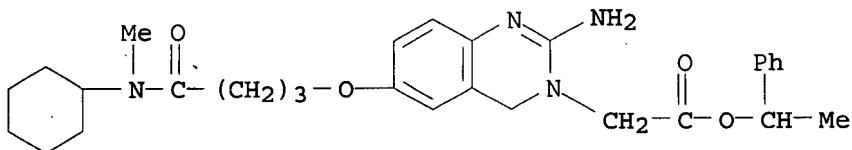
CN 3(4H)-Quinazolineacetic acid, 2-amino-6-[4-(cyclohexylmethylamino)-4-oxobutoxy]-, 1-methylethyl ester (9CI) (CA INDEX NAME)



10/ 541,535

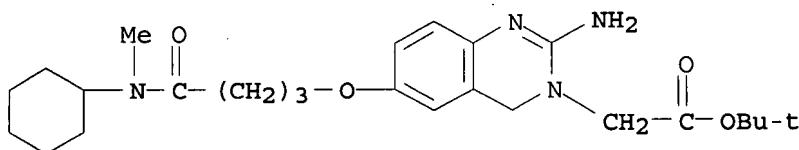
RN 115623-50-2 ZCPLUS

CN 3(4H)-Quinazolineacetic acid, 2-amino-6-[4-(cyclohexylmethylamino)-4-oxobutoxy]-, 1-phenylethyl ester (9CI) (CA INDEX NAME)



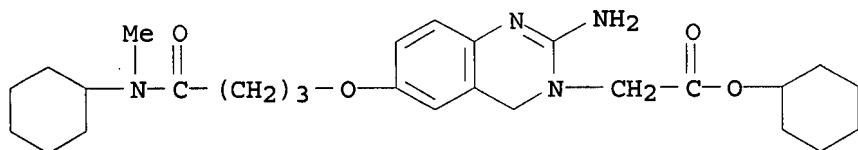
RN 115653-85-5 ZCPLUS

CN 3(4H)-Quinazolineacetic acid, 2-amino-6-[4-(cyclohexylmethylamino)-4-oxobutoxy]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



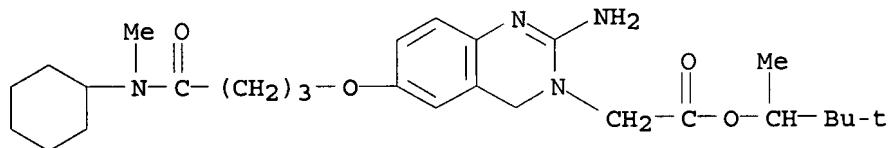
RN 115653-86-6 ZCPLUS

CN 3(4H)-Quinazolineacetic acid, 2-amino-6-[4-(cyclohexylmethylamino)-4-oxobutoxy]-, cyclohexyl ester (9CI) (CA INDEX NAME)



RN 115653-87-7 ZCPLUS

CN 3(4H)-Quinazolineacetic acid, 2-amino-6-[4-(cyclohexylmethylamino)-4-oxobutoxy]-, 1,2,2-trimethylpropyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 18 OF 20 ZCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1988:406541 ZCPLUS

DOCUMENT NUMBER: 109:6541

TITLE: Preparation, testing, and formulation of
[2-amino-3-(acylmethyl)-3,4-
dihydroquinazolinyl]oxy]alkanamides as cardiovascular
agents

INVENTOR(S): Fried, John H.; Venuti, Michael C.

PATENT ASSIGNEE(S): Syntex (U.S.A.), Inc., USA

SOURCE: Eur. Pat. Appl., 27 pp.

CODEN: EPXXDW

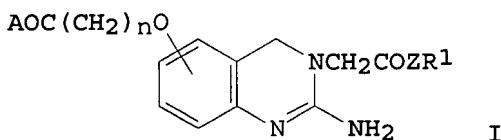
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 254327	A2	19880127	EP 1987-110796	19870724
EP 254327	A3	19891108		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
US 4761416	A	19880802	US 1986-889641	19860725
DK 8703888	A	19880126	DK 1987-3888	19870724
AU 8776100	A	19880128	AU 1987-76100	19870724
JP 63039866	A	19880220	JP 1987-186503	19870724
ZA 8705469	A	19890329	ZA 1987-5469	19870724
PRIORITY APPLN. INFO.:			US 1986-889641	A 19860725
OTHER SOURCE(S):			CASREACT 109:6541; MARPAT 109:6541	
GI				



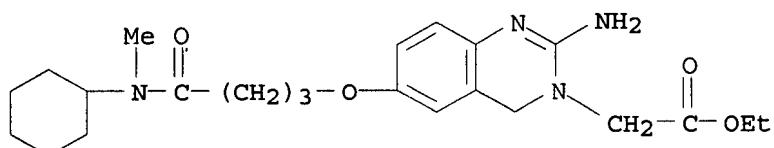
AB The title compds. (I; R1 = H, OH, Me, Et, cycloalkyl, hydroxyalkyl, alkoxy, halo, amino, etc.; A = amino; Z = O, NR2; R2 = R1; n = 1-6) and their pharmaceutically acceptable salts were prepared as cardiovascular agents. N-Cyclohexyl-N-methyl-4-(3-formyl-4-nitrophenoxy)butyramide and then NaBH3CN were added to a mixture of glycine Et ester-HCl and NaOAc in EtOH and the mixture was stirred 3 h. The residue was hydrogenated in EtOH over Pd/C and treated with BrCN to give N-cyclohexyl-N-methyl-4-[(2-amino-3-(ethoxycarbonylmethyl)-3,4-dihydroquinazolin-6-yl)oxy]butyramide. The latter inhibited human cAMP phosphodiesterase with an IC50 of 9.3 nM, and increased contractility of the right ventricle of dogs by 38-62% of the maximum values seen with isoproterenol.

IT 114703-76-3P 114703-77-4P 114703-82-1P
 114703-83-2P 114703-84-3P 114703-85-4P
 114703-86-5P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of, as cardiovascular agent)

RN 114703-76-3 ZCPLUS

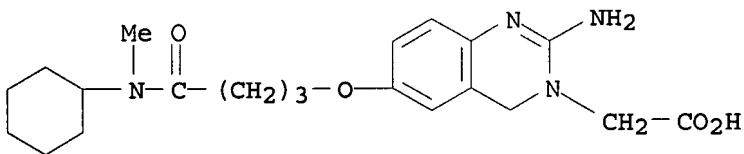
CN 3(4H)-Quinazolineacetic acid, 2-amino-6-[4-(cyclohexylmethylamino)-4-oxobutoxy]-, ethyl ester, monohydrobromide (9CI) (CA INDEX NAME)



● HBr

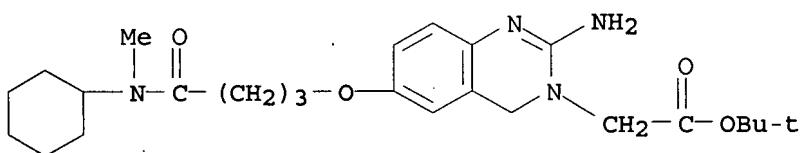
RN 114703-77-4 ZCPLUS

CN 3(4H)-Quinazolineacetic acid, 2-amino-6-[4-(cyclohexylmethylamino)-4-oxobutoxy]- (9CI) (CA INDEX NAME)



RN 114703-82-1 ZCPLUS

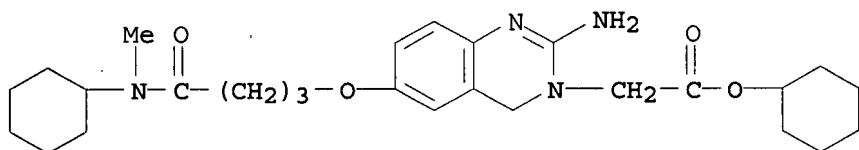
CN 3 (4H) -Quinazolineacetic acid, 2-amino-6- [4-(cyclohexylmethylamino) -4- oxobutoxy] -, 1,1-dimethylethyl ester, monohydrobromide (9CI) (CA INDEX NAME)



● HBr

RN 114703-83-2 ZCPLUS

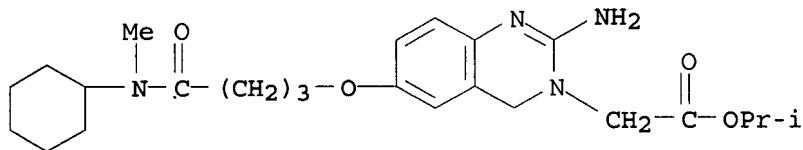
CN 3 (4H) -Quinazolineacetic acid, 2-amino-6- [4-(cyclohexylmethylamino) -4- oxobutoxy] -, cyclohexyl ester, monohydrobromide (9CI) (CA INDEX NAME)



● HBr

RN 114703-84-3 ZCPLUS

CN 3 (4H) -Quinazolineacetic acid, 2-amino-6- [4-(cyclohexylmethylamino) -4- oxobutoxy] -, 1-methylethyl ester, monohydrobromide (9CI) (CA INDEX NAME)

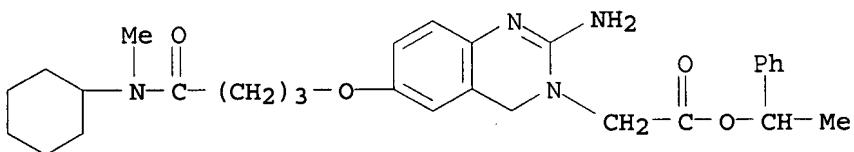


● HBr

RN 114703-85-4 ZCPLUS

CN 3 (4H) -Quinazolineacetic acid, 2-amino-6- [4-(cyclohexylmethylamino) -4-

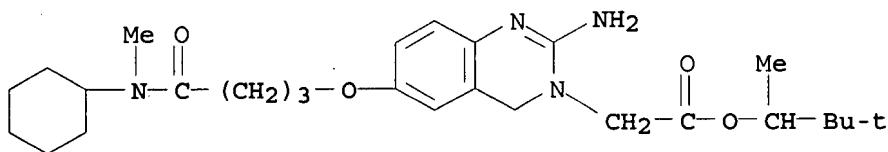
oxobutoxy] -, 1-phenylethyl ester, monohydrobromide (9CI) (CA INDEX NAME)



● HBr

RN 114703-86-5 ZCPLUS

CN 3 (4H) -Quinazolineacetic acid, 2-amino-6-[4-(cyclohexylmethylamino)-4-oxobutoxy] -, 1,2,2-trimethylpropyl ester, monohydrobromide (9CI) (CA INDEX NAME)



● HBr

L4 ANSWER 19 OF 20 ZCPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1983:179403 ZCPLUS

DOCUMENT NUMBER: 98:179403

TITLE: 6,7-Dichloro-1,5-dihydroimidazo[2,1-b]quinazolin-2(3H)-one

INVENTOR(S): Jenks, Thomas A.; Beverung, Warren N., Jr.; Partyka, Richard A.

PATENT ASSIGNEE(S): Bristol-Myers Co. , USA

SOURCE: Can., 25 pp. Division of Can. Appl. No. 324,838.

CODEN: CAXXA4

DOCUMENT TYPE: Patent

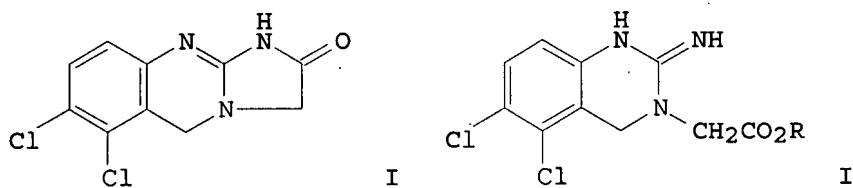
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 1137474	A2	19821214	CA 1981-381570	19810710
US 4146718	A	19790327	US 1978-894464	19780410
CA 1109067	A1	19810915	CA 1979-324838	19790403
PRIORITY APPLN. INFO.:			US 1978-894464	A 19780410
			CA 1979-324838	A3 19790403

GI



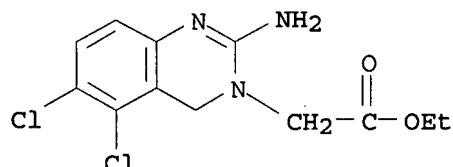
AB Title compound (I) was prepared by cyclization of II.HX (R = alkyl; X = Cl, Br, iodo) in presence of a base. Thus, II.HBr (R = Et) was prepared in 6 steps from 1,2,3-Cl₃C₆H₃, and was cyclized in the presence of 1 mol NEt₃ in EtOH to give 92% I.

IT 70381-75-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyclization of)

BN 70381-75-8 ZCABLIJS (preparation and

RN 70381-75-8 ZCAPLUS
CN 3 (4H)-Quinazolineacetic acid, 2-amino-5,6-dichloro-, ethyl ester,
monohydrobromide (9CI) (CA INDEX NAME)



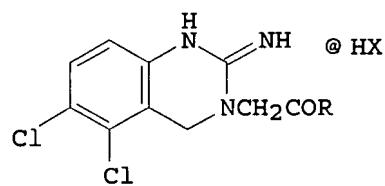
● HBr

L4 ANSWER 20 OF 20 ZCPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1979:405248 ZCPLUS
DOCUMENT NUMBER: 91:5248
TITLE: Alkyl 5,6-dichloro-3,4-dihydro-2(1H)-iminoquinazoline-3-acetate hydrohalides
INVENTOR(S): Jenks, Thomas A.; Beverung, Warren N., Jr.; Partyka, Richard A.
PATENT ASSIGNEE(S): Bristol-Myers Co., USA
SOURCE: U.S., 8 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

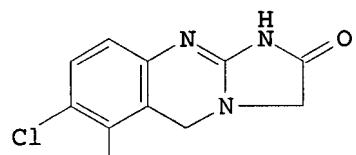
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4146718	A	19790327	US 1978-894464	19780410
CA 1109067	A1	19810915	CA 1979-324838	19790403
FI 7901125	A	19791011	FI 1979-1125	19790405
FI 66616	B	19840731		
FI 66616	C	19841112		
DK 7901447	A	19791011	DK 1979-1447	19790406
DK 156062	B	19890619		
DK 156062	C	19891106		
AU 7945889	A	19791018	AU 1979-45889	19790406

AU 527748	B2	19830324		
FR 2422649	A1	19791109	FR 1979-8770	19790406
FR 2422649	B1	19830729		
GB 2018765	A	19791024	GB 1979-12354	19790409
GB 2018765	B	19820804		
HU 21861	A2	19820227	HU 1979-BI586	19790409
HU 179424	B	19821028		
HU 28466	A2	19831228	HU 1982-177	19790409
HU 187562	B	19860128		
SU 1120923	A3	19841023	SU 1979-2751007	19790409
BE 875475	A1	19791010	BE 1979-194524	19790410
SE 7903198	A	19791011	SE 1979-3198	19790410
SE 445217	B	19860609		
SE 445217	C	19860918		
NL 7902825	A	19791012	NL 1979-2825	19790410
NL 191182	B	19941003		
NL 191182	C	19950301		
DE 2914494	A1	19791018	DE 1979-2914494	19790410
DE 2914494	C2	19890720		
JP 54135794	A	19791022	JP 1979-42626	19790410
JP 02033035	B	19900725		
ZA 7901727	A	19800528	ZA 1979-1727	19790410
CH 639079	A5	19831031	CH 1979-3388	19790410
CA 1137474	A2	19821214	CA 1981-381570	19810710
DK 8200767	A	19820222	DK 1982-767	19820222
DK 150605	B	19870413		
DK 150605	C	19871207		
FI 8300150	A	19830117	FI 1983-150	19830117
FI 71931	B	19861128		
FI 71931	C	19870309		
SE 8404061	A	19840810	SE 1984-4061	19840810
SE 454990	B	19880613		
SE 454990	C	19880922		
DK 8603166	A	19860703	DK 1986-3166	19860703
DK 154838	B	19881227		
DK 154838	C	19890710		
JP 02022276	A	19900125	JP 1989-137585	19890601
JP 03012066	B	19910219		
PRIORITY APPLN. INFO.:			US 1978-894464	A 19780410
			CA 1979-324838	A3 19790403
			FI 1979-1125	A 19790405
			DK 1979-1447	A 19790406

OTHER SOURCE(S) : MARPAT 91:5248
GI



I



IV

AB The title compds. I (R = alkyl; X = Cl, Br, iodo) were prepared. Thus, 2,3,6-Cl₂(H₂N)C₆H₂CH₂NHCH₂CO₂Et (II) was cyclized with BrCN to give I (R = Et, X = Br) (III), which was cyclized to give 6,7-dichloro-1,5-dihydroimidazo[2,1-b]quinazoline-2(3H)-one (IV). II was prepared in 5 steps from 1,2,3-Cl₃C₆H₃ and in 5 steps from 4-chloroisatin. The

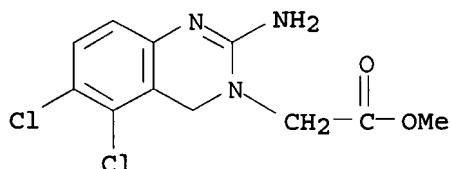
antiaggregative and antithrombosis activity of II was compared with aspirin, dipyridamole, and sulfinpyrazone.

IT 70380-52-8P 70380-53-9P 70380-54-0P
 70380-55-1P 70380-56-2P 70380-57-3P
 70381-75-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of)

RN 70380-52-8 ZCPLUS

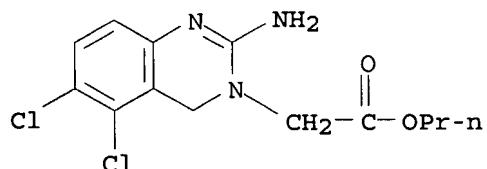
CN 3 (4H) -Quinazolineacetic acid, 2-amino-5,6-dichloro-, methyl ester,
 monohydrobromide (9CI) (CA INDEX NAME)



● HBr

RN 70380-53-9 ZCPLUS

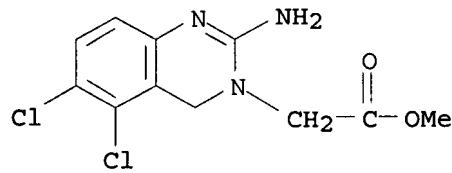
CN 3 (4H) -Quinazolineacetic acid, 2-amino-5,6-dichloro-, propyl ester,
 monohydrobromide (9CI) (CA INDEX NAME)



● HBr

RN 70380-54-0 ZCPLUS

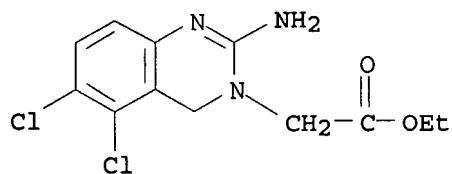
CN 3 (4H) -Quinazolineacetic acid, 2-amino-5,6-dichloro-, methyl ester,
 monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 70380-55-1 ZCPLUS

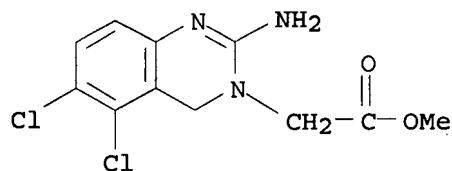
CN 3 (4H) -Quinazolineacetic acid, 2-amino-5,6-dichloro-, ethyl ester,
 monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 70380-56-2 ZCPLUS

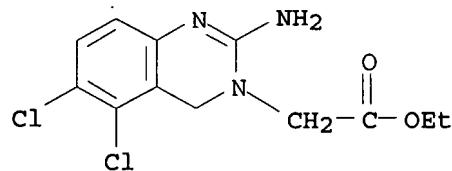
CN 3(4H)-Quinazolineacetic acid, 2-amino-5,6-dichloro-, methyl ester, monohydrate (9CI) (CA INDEX NAME)



● HI

RN 70380-57-3 ZCPLUS

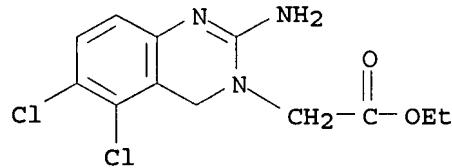
CN 3(4H)-Quinazolineacetic acid, 2-amino-5,6-dichloro-, ethyl ester, monohydrate (9CI) (CA INDEX NAME)



● HI

RN 70381-75-8 ZCPLUS

CN 3(4H)-Quinazolineacetic acid, 2-amino-5,6-dichloro-, ethyl ester, monohydrobromide (9CI) (CA INDEX NAME)



● HBr

10/ 541,535

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(FILE 'HOME' ENTERED AT 14:11:00 ON 07 MAY 2007)

FILE 'REGISTRY' ENTERED AT 14:11:10 ON 07 MAY 2007

L1 STRUCTURE UPLOADED
L2 9 S L1 SAMPLE
L3 166 S L1 FUL

FILE 'ZCAPLUS' ENTERED AT 14:11:49 ON 07 MAY 2007

L4 20 S L3

=> log y

	SINCE FILE ENTRY	TOTAL SESSION
COST IN U.S. DOLLARS		
FULL ESTIMATED COST	105.46	277.77
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-15.60	-15.60

STN INTERNATIONAL LOGOFF AT 14:12:21 ON 07 MAY 2007